

Message Text

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44

ACTION INR-07

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UNCLAS SECTION 01 OF 02 BONN 13001

E.O. 11652 N/A

TAGS: ENRG, GW

SUBJECT: TECHNOLOGIES FOR - THE CONSERVATION OF ENERGY

REF: A. STATE 190310; B. C-SI-6-50244

1. SUMMARY. THE DRAFT SUMMARY OF A GERMAN STUDY ON " TECHNOLOGIES FOR THE CONSERVATION OF ENERGY " FORESEES THAT BY 1985, 20 PERCENT OF THE ANNUAL ENERGY CONSUMPTION IN PRIVATE HOUSEHOLDS IN THE FRG, 10 PERCENT OF INDUSTRIAL CONSUMPTION AND, BY 2000, ANOTHER 20 PERCENT IN THE AUTOMOBILE SECTOR COULD BE SAVED BY THE RATIONAL USE OF ENERGY AND BY THE APPLICATION OF NEW TECHNOLOGIES. END SUMMARY.

2. THE STUDY WHICH WAS PREPARED BY THE PRIVATE ENGINEERING CONSULTING FIRM " FICHTNER BERATENDE INGENIEURE, STUTTGART " UNDER THE CONTRACT OF THE FEDERAL MINISTRY FOR RESEARCH AND TECHNOLOGY (BMFT) GIVES RESULTS OF CALCULATIONS OF IMPROVEMENTS IN THE RATIONAL USE OF ENERGY WHICH COULD BE ACHIEVED BY APPLICATION OF NEW TECHNOLOGIES AS WELL AS RECOMMENDATIONS ABOUT POSSIBLE GOVERNMENT MEASURES TO CUT DOWN ENERGY CONSUMPTION. THE LATTER RESULTS WHICH WERE PREPARED BY A PROJECT STUDY GROUP OF THE UNIVERSITY OF ESSEN WILL APPEAR IN A 5000 PAGE TEXT WHICH IS EXPECTED TO BE PUBLISHED BY LATE SEPTEMBER.

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LISHED BY LATE SEPTEMBER.

3. FOLLOWING IS A SUMMARY OF SOME OF THE HIGHLIGHTS
FROM A 16 PAGE DRAFT SUMMARY OF THIS STUDY.

4. ONE OF THE MOST STRIKING RESULTS IS THAT IN THE
PERIOD 1960-73 ENERGY CONSUMPTION IN THE PRIVATE HOUSE-
HOLD SECTOR ROSE FROM 36 TO 44 PERCENT OF THE TOTAL
ENERGY PRODUCTION. THE TRAFFIC SECTOR REMAINED ALMOST
CONSTANT WITH AN INCREASE IN CONSUMPTION FROM 15 TO 18
PERCENT. INDUSTRIAL CONSUMPTION DROPPED SIGNIFICANTLY
FROM 49 TO 38 PERCENT. EVEN MORE DRAMATIC IS THE IN -
CREASE IN THE OIL CONSUMPTION: WHILE INDUSTRY INCREASED
BY 260 PERCENT AND REQUIREMENTS FOR TRANSPORTATION
INCREASED BY 207 PERCENT -- PRIVATE HOUSEHOLDS DEMANDED
A 577 PERCENT INCREASE.

5. BECAUSE UP TO 86 PERCENT OF THE PRIVATE HOUSEHOLD
CONSUMPTION IS SPENT FOR HEATING, THE STUDY RECOMMENDS
" LESS GENEROUS " HEATING HABITS. FOR EXAMPLE, A DROP
IN THE ROOM TEMPERATURE BY 1.5 DEGREES CELSIUS WOULD
CORRESPOND TO AN ENERGY CONSERVATION OF 10 PERCENT.
SUCH EFFECTIVE ENERGY CONSERVATION MEASURES WITHOUT
ADDITIONAL COSTS ARE FAVORED OVER TECHNOLOGICAL MEAS-
URES THAT WOULD REQUIRE SUBSTANTIAL INVESTMENT.

6. THE METHODS TO REDUCE ENERGY CONSUMPTION IN THE
INDUSTRY ARE MUCH LESS OBVIOUS. INDUSTRY HAS EXPENDED
CONSIDERABLE EFFORT ON THE REDUCTION OF ENERGY NEEDS.
THE STUDY CITES A NUMBER OF WAYS TO DECREASE THE ENERGY
DEMAND FOR INDUSTRIAL PRODUCTION BUT POINTS OUT THAT

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MOST OF THESE ARE NOT FEASIBLE AS THEY REQUIRE UNPROFITABLE INVESTMENTS.

7. THE CALCULATED DECREASE IN ENERGY USE IN THE AUTOMOBILE SECTOR OF 20 PERCENT WOULD RESULT FROM TECHNOLOGICAL IMPROVEMENTS SUCH AS LIGHTER VEHICLES WITH BETTER AERODYNAMICS, IMPROVED ENGINES AND OVERALL USE OF RADIAL TIRES.

8. THE FEDERAL GOVERNMENT HAS UNDERTAKEN THE FIRST STEP TO CONTRIBUTE TO THE RATIONAL USE OF ENERGY THROUGH LEGISLATIVE MEASURES BY INTRODUCING A LAW ON ENERGY SAVING. THIS LAW WHICH PASSED PARLIAMENT ON JUNE 27, 1976 ESTABLISHES A BASIS FOR REGULATIONS IN THE FOLLOWING FIELDS: BETTER INSULATION IN NEWLY BUILT HOMES, IMPROVEMENTS IN HEATING AND VENTILATION SYSTEMS AND REGULAR MONITORING OF LARGE INSTALLATIONS.

9. THE BMFT HAS ALSO COMMISSIONED A STUDY ON "SAVING IN PRIMARY ENERGY THROUGH ENVIRONMENTALLY FAVORABLE HEAT-POWER COUPLING-- PREPARATION OF A HEAT MAP" WHICH IS BEING PERFORMED BY THE ASSOCIATION OF DISTRICT HEATING SUPPLIERS. THIS STUDY, WHICH IS TO BE COMPLETED
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BY LATE SEPTEMBER, WILL BE PART OF THE BASIS FOR A LONG TERM FRG ENERGY STRATEGY.

10. AS REQUESTED REF B, THIS DRAFT SUMMARY IN GERMAN HAS BEEN POUCHED TO OES: ATTENTION PROCHNIK.
HILLENBRAND

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